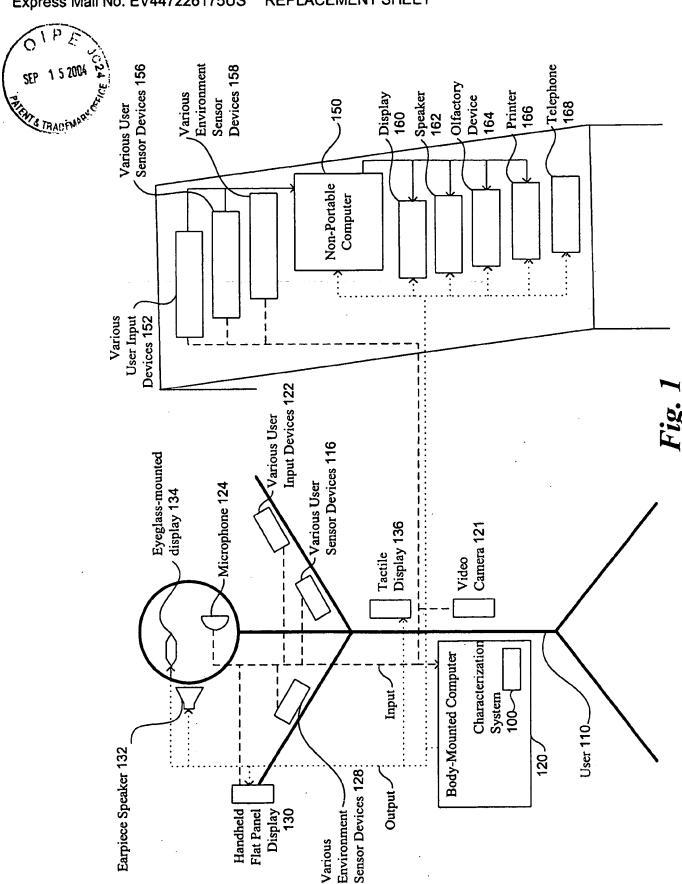
Serial No. 09/724,777 Dott No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.

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PUT

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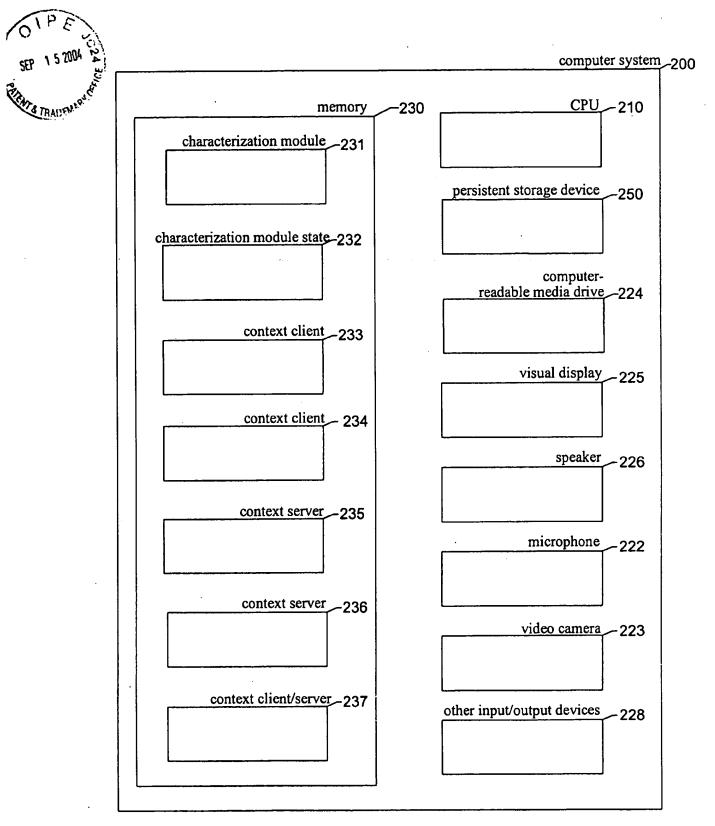


Fig. 2

Serial No. 09/724,777 et No. 890057.419C1 Dd Inventor(s): Kenneth H. Abbott et al. Express Mail No. EV447226175US "REPLACEMENT SHEET" TRADENIE OT A STATE OF THE PROPERTY OF THE PRO 330 region_analysis CONTEXT CLIENT/ SERVER -331 -332 in_region attribute attribute location user. user. -322 .352 user. elevation elevation attribute attribute user. CHARACTERIZATION MODULE 350 -321 CONTEXT SERVER CONTEXT CLIENT (location_ map) 351 (ips) in_region attribute location attribute user. -310 340 311 -341 CONTEXT CLIENT (distance_ from_home) CONTEXT SERVER user. location attribute location attribute user. (sdg)

300-

Serial No. 09/724,777 Does No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al. Express Mail No. EV447226175US "REPLACEMENT SHEET"



			-		context server table - 400	400
	context server name	version	installation date	filename	request handler	
104	401— gps	1	2/10/2000	gps.exe	(reference)	
402 ips	ips	1	2/21/2000	ips.exe	(reference)	
403	403 location_region_analysis	1	2/10/2000	l_r_a.exe	(reference)	
	411	7	_412	414	415	15
			1 -: 1			

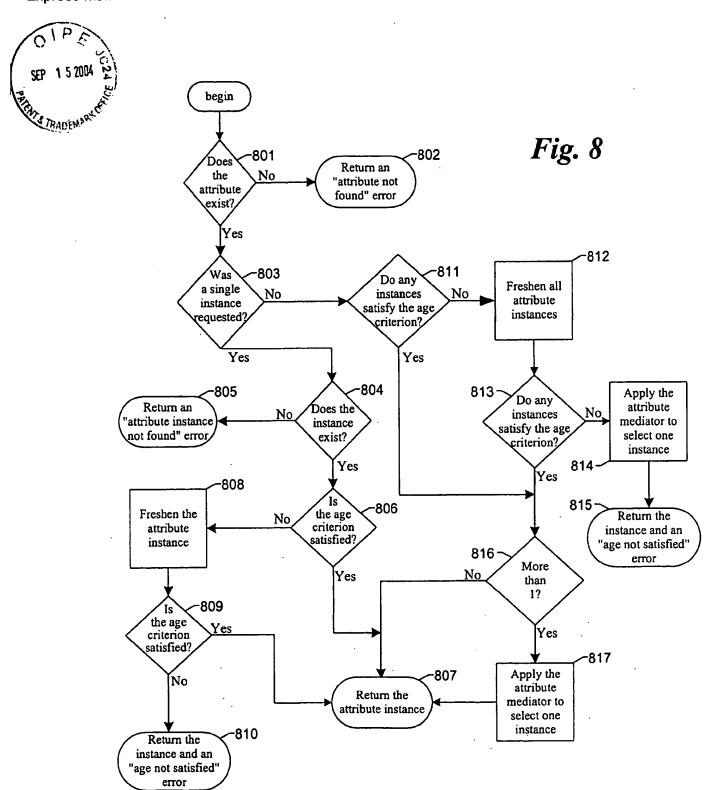
500						attribut	attribute instance table
, — —	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
501	user.location	sdā	47° 38.73° N, 122° 18.43° W	.00°.09	13:11:04.023 2/22/2000	degrees/minutes	2
505	user.location	. sdi	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
503	user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	-
504	user.in_region	location_region_ analysis	ouo	none	none	none	0
	-511	512	-513	-514	-515	-516	_517

Serial No. 09/724,777 Det No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



	context clent name	9		message handler	ller		
15/19	location_map			(reference)			
	distance_from_home	me		(reference)	,		•
•	region_analysis			(reference)			
I		-611	Fi	Fig. 6		~612	
700>						attribut	attribute instance table
J	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
. 701	user.location	sda	47° 38.73° N, 122° 18.43° W	.00°.0	13:11:04.023 2/22/2000	degrees/minutes	2
702 us	user.location	sdı	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	7
sm _ £02	user.elevation	sdi.	22	ς:	13:11:01.118 2/22/2000	meters	1.
m 204	user.in_region	location_region_ analysis	none	none	none	none	1
] .	711	712	_713	714	715	716	. 717
				t			

Serial No. 09/724,777 Domet No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.
Express Mail No. EV447226175US "REPLACEMENT SHEET"



Serial No. 09/724,777 Do t No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



900						attribut	attribute instance table
•	attribute name	context server name	value	uncertainty	timestamp	· units	number of context clients consuming
901	user.location	, sda	47° 38.73' N, 122° 18.43' W	.00 0	13:11:04.023 2/22/2000	degrees/minutes	2
905	user.location	sdi	47° 38.745° N, 122° 18.424° W	0° .021°	13:11:01.118 2/22/2000	degrees/minutes	2
903	user.elevation	sdi	22.25	.5	13:11:06.565 2/22/2000	meters	-
904	user.in_region	region_analysis	none	none	none	none	1
	-911	912	-913	914	915	916	-917
			F	Fig. 9			

condition table -1016 logical operator I comparison value -1015 TRUE second logical **~1014** parameter **L1013** first logical parameter user.in_region context client name **~1012** region_analysis condition name _1011 in_region_true 1661

Fig. 10

Serial No. 09/724,777 Dd et No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al. Express Mail No. EV447226175US "REPLACEMENT SHEET"



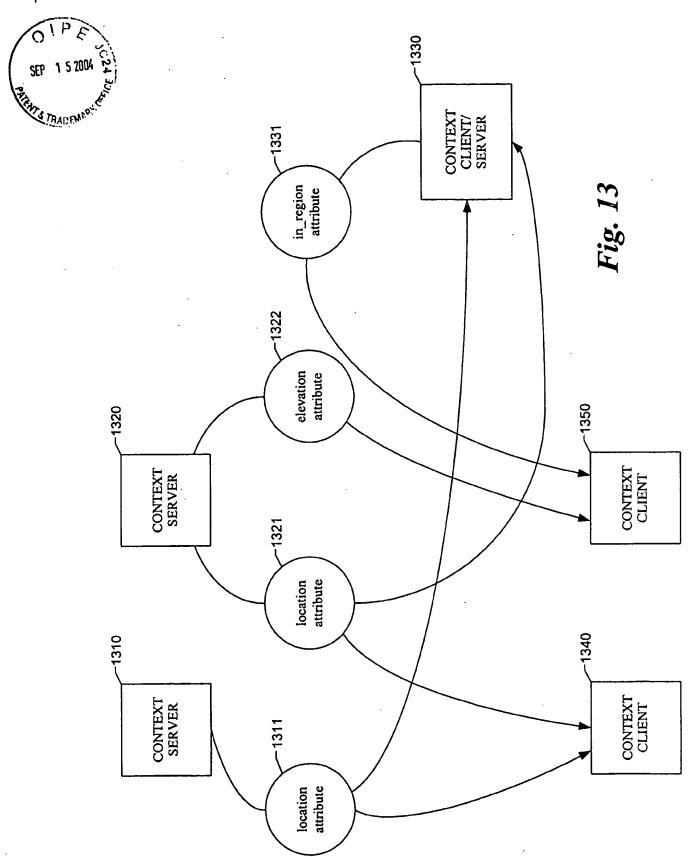
1100								
, ——— ,	condition monitor name	context	lient name condition name behavior frequency condition last trigger handler stopped evaluated reference	behavior	frequency	condition last evaluated	trigger handler reference	stopped
101/	region_boundary_ region_analysis	region_analysis	in_region_true TRUE or 30 FALSE	TRUE or FALSE	30	13:11:29.101 2/22/2000	(reference)	ou
	-1111	-1112	_1113	11114	÷	L1115 L1116	11117	1118

Fig. 11

condition monitor context client name condition name hehavior frequency condition last rigger handler stopped region_boundary_ region_analysis in_region_true FALSE FALSE	1218	1217	15 \1216	4 \-1215	1214	1213	1212	1211	
condition name behavior frequency condition last trigger handler evaluated reference	yes	(reference)	13:11:59.101 2/22/2000	30	TRUE or FALSE	in_region_true	region_analysis	region_boundary_ crossed	1201
		trigger handler reference	condition last evaluated	frequency	behavior	condition name	context client name	condition monitor name	

Fig. 12

Serial No. 09/724,777 Do to No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.
Express Mail No. EV447226175US "REPLACEMENT SHEET"



Serial No. 09/724,777 Det No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.

Express Mail No. EV447226175US "REPLACEMENT SHEET"



		attribute request table
attribute name		context client name
1401 user.location		distance_from_home
1402 user.in_region		location_map
1403 user.location [8	gps]	location_region_analysis
1404 user.elevation		location_map
1404	-1411	1412

Fig. 14

Serial No. 09/724,777 Deet No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



```
Platform. (continued)
User.
                                                         CPU.
    Desired_privacy_level
                                                               Load
    Interruptibility
                                                                                       Fig. 15
    Speed
                                                               Speed
    Direction
                                                          Memory.
                                                               Total_capacity
    Acceleration
                                                               Used
    Availability.
                                                          Storage.
         Cognitive availability
                                                               Total_capacity
         Tactile availability
                                                               Used
         Manual availability
                                                          Connectivity.
         Visual availability
         Oral_availability
                                                               Connection_status
         Auditory availability
                                                               Connection speed
                                                               Connection type/device
    Proximity.<Item or place name>
                                                               Connection_activity
    Mood.
                                                          Power.
         Happiness
                                                               Power_source
         Sadness
                                                               Power_level
         Anger
                                                     Environment.
         Frustration
                                                          People.
         Confusion
                                                               Nearest
    Activity.
         Driving
                                                               Number_present
                                                               Number close
         Eating
                                                          Local.
         Running
                                                               Time
         Sleeping
                                                               Date
         Talking
                                                               Temperature
         Typing
                                                               Pressure
         Walking
                                                               Wind speed
    Location.
                                                               Wind_direction
         Place name
                                                               Absolute_humidity
         Latitude
                                                               High forecast temperature
         Longitude
                                                               Low forecast temperature
         Altitude
                                                               People present
         Room
                                                               Ambient noise level
         Floor
                                                               Ambient_light_level
         Building
                                                               Days. < previous or future>.
         Address
                                                                       High_temperature
         Street
                                                                       Low temperature
         City
                                                                       Precipitation type
         County
                                                                       Precipitation_amount
         State
                                                          Place. <place name>. (same as Environment. Local)
         Country
                                                      Application.
          Postal Code
                                                          Mail.
    Destination. (same as User.Location.)
    Physiology.
                                                               Available
                                                               New messages_waiting
         Pulse
          Body_temperature
                                                               Messages_waiting_to_be_sent
                                                          Phone.
          Blood_pressure
                                                               Available
          Respiration
                                                               In use
Person.<name or ID>. (same as User.)
                                                               On/off
Platform.
                                                               Notification_mechanism
    UI.
          Oral_input_device_availability
                                                               Call_incoming
                                                               Caller ID
          Manual input_device_availability
                                                          Sound_recorder.
          Tactile output device availability
                                                               Available
          Visual output device availability
                                                                Recording
          Auditory output_device_availability
```

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1) User Setting

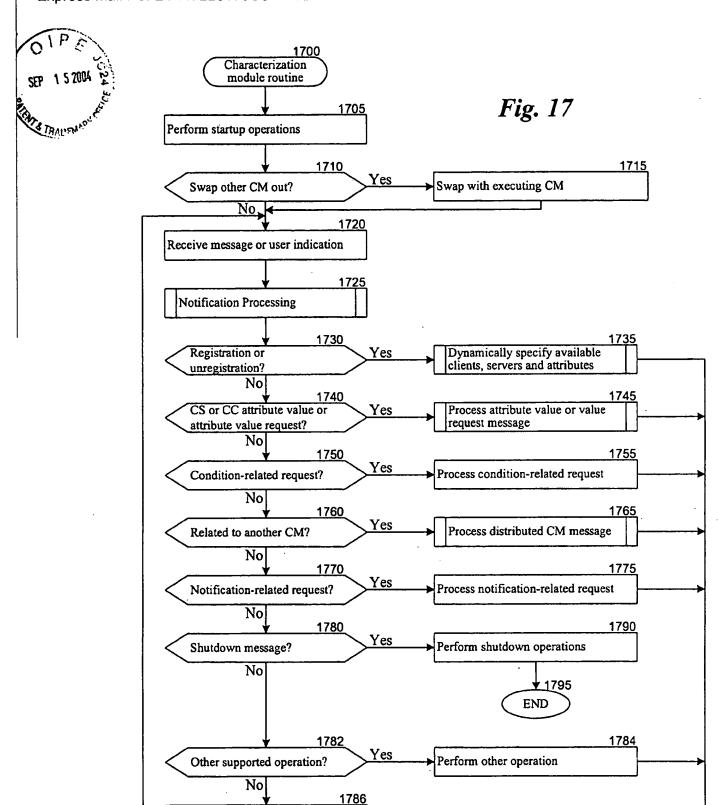
- a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
- b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

2) Computer

Fig. 16

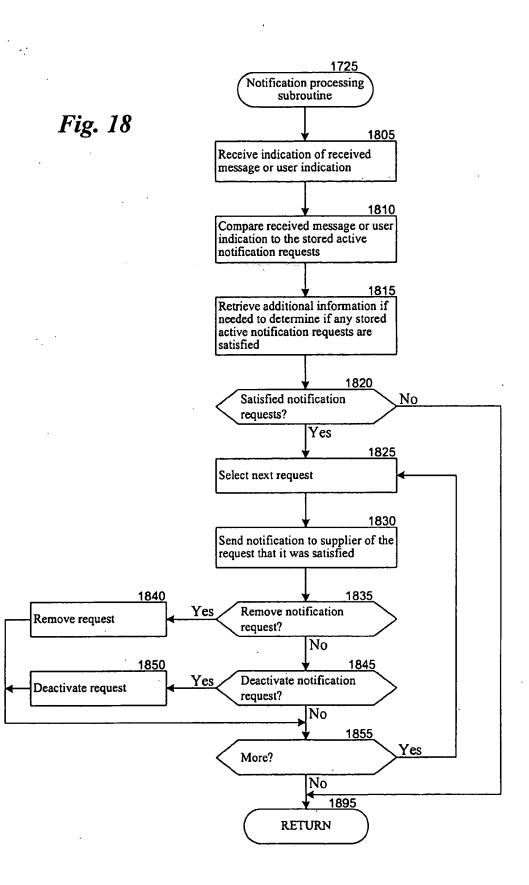
- a) Power
- b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
- c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

Send error message

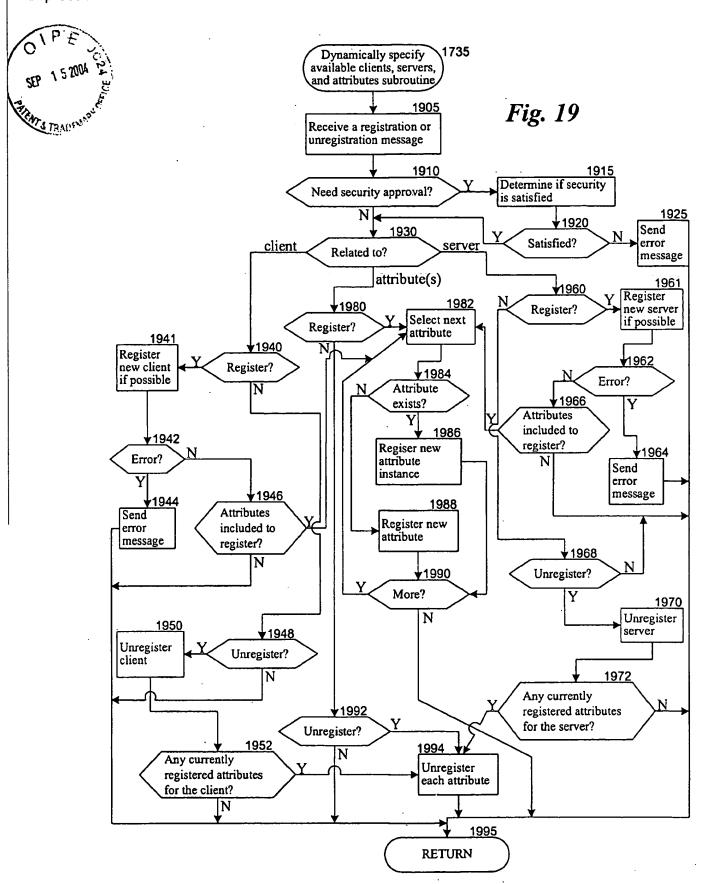


Serial No. 09/724,777 Det No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al. Express Mail No. EV447226175US "REPLACEMENT SHEET"



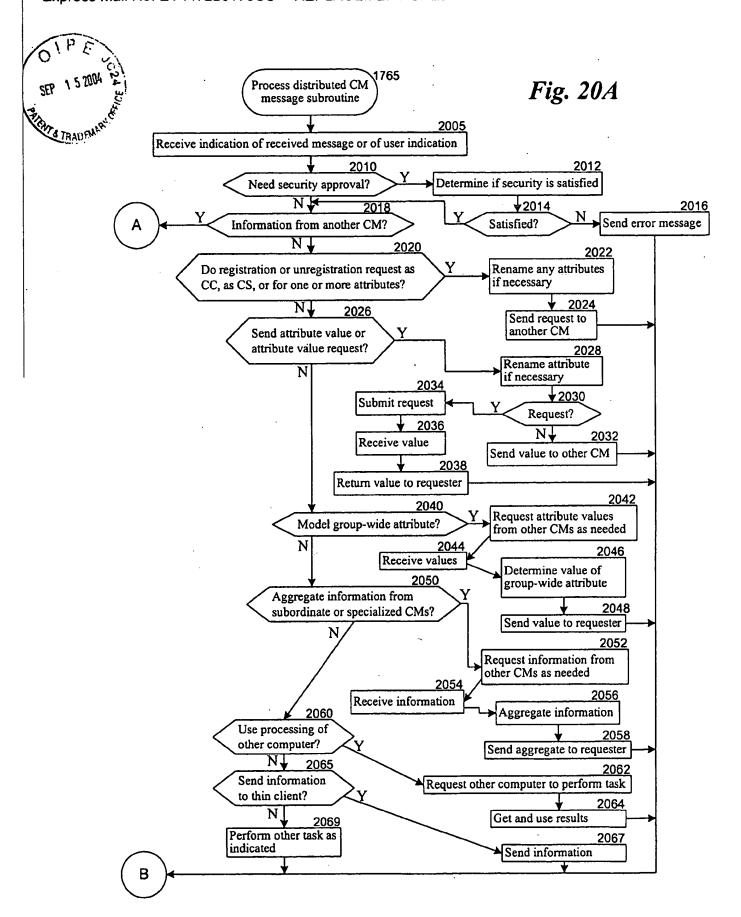


Serial No. 09/724,777 Det No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.

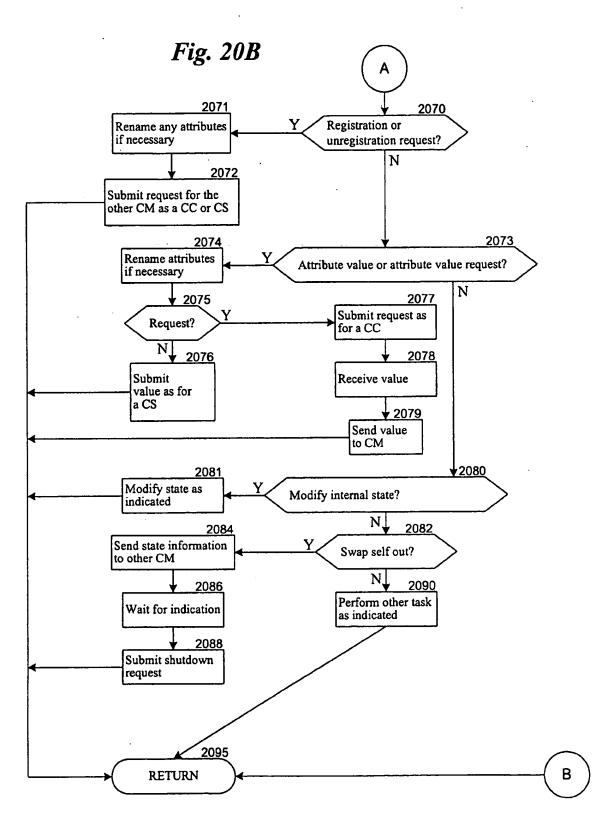


Serial No. 09/724,777 Det No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.

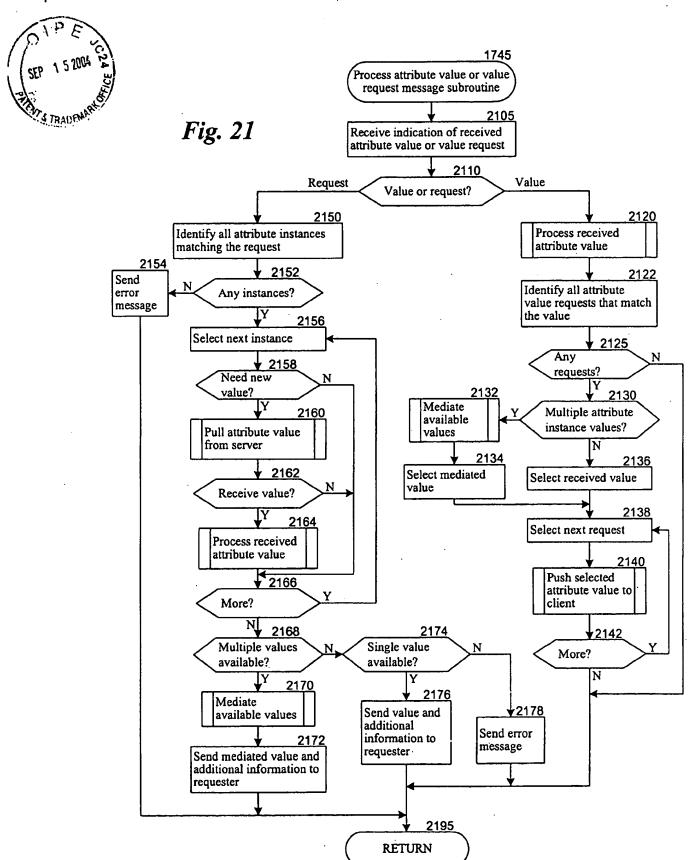
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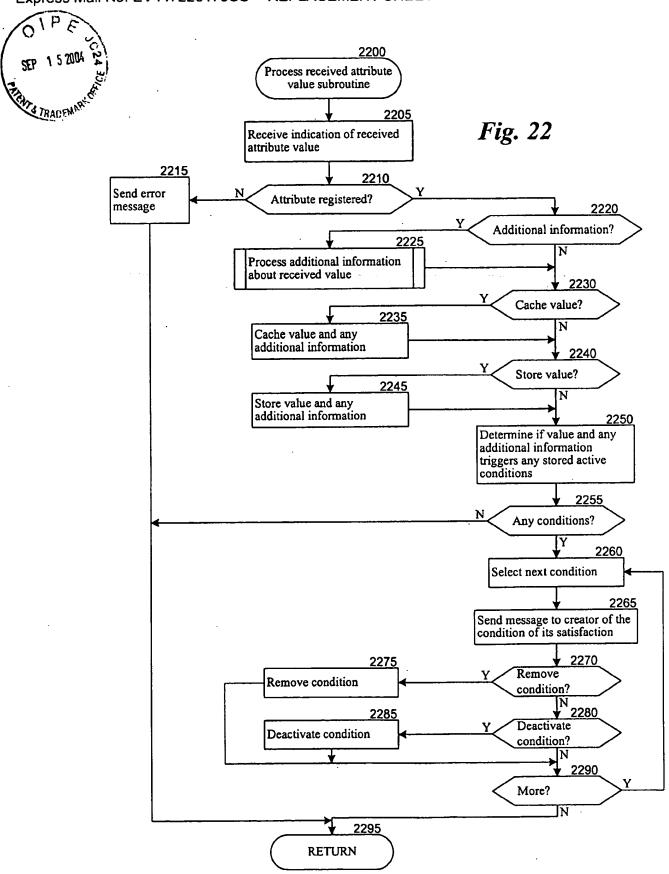




Serial No. 09/724,777 Detet No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



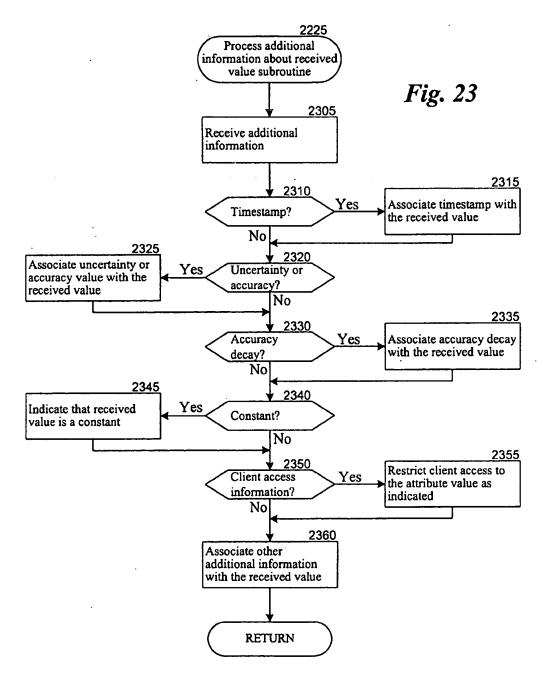
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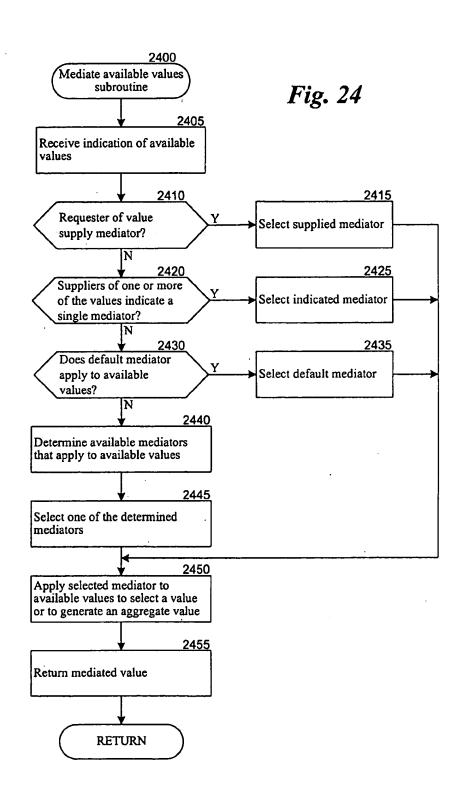
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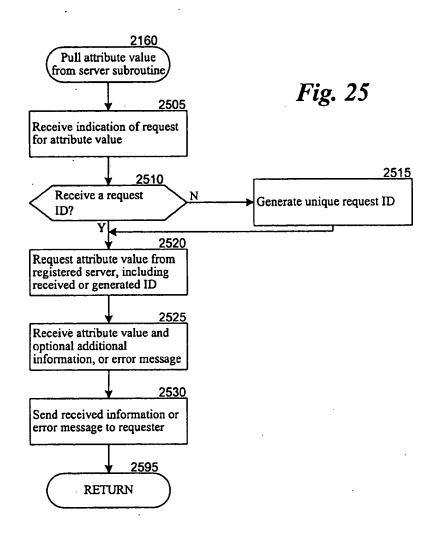




Serial No. 09/724,777 Detet No. 890057.419C1
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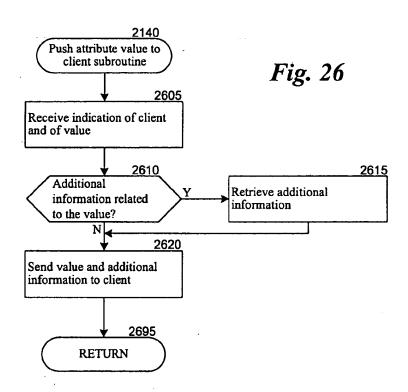




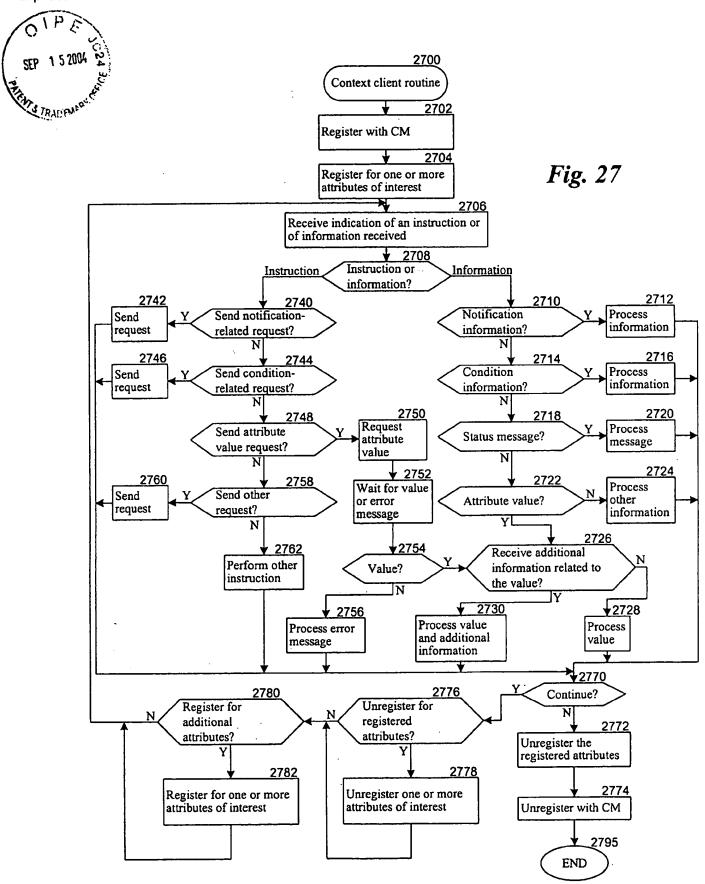
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